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1 Compound program packages and a nonlinear random fluctuations analysis   ▨
     Igor E. Poloskov
     August 1998 **Proceedings of the 1998 international symposium on Symbolic and algebraic computation**
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2 Access control: First experiences using XACML for access control in distributed systems   ▨
     Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah
     October 2003 **Proceedings of the 2003 ACM workshop on XML security**
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     Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

     Keywords: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

3 Management: Overload management in sensor-actuator networks used for spatially-distributed control systems   ▨
     Michael Lemmon, Qiang Ling, Yashan Sun
     November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**
     Full text available: 📄 pdf(233.44 KB) Additional Information: full citation, abstract, references, citings, index terms

     Overload management policies avoid network congestion by actively dropping packets. This paper studies the effect that such data dropouts have on the performance of spatially distributed control systems. We formally relate the

spatially-distributed system's performance (as measured by the average output signal power) to the data dropout rate. This relationship is used to pose an optimization problem whose solution is a Markov chain characterizing a dropout process that maximizes control system p ...

Keywords: networked control systems, overload management, sensor-actuator networks, spatially-distributed systems

4 Digital control simulation system

H. Rex Hartson

January 1969 **Proceedings of the 6th annual conference on Design Automation**

Full text available: pdf(1.83 MB)   Additional Information: full citation, abstract, references, citings, index terms

Today there is widespread application of digital control circuitry in a wide range of products. This paper describes a simulation system in which the designer of these control circuits can interact with his design ideas before they are implemented in hardware. The Digitial Control Simulation System (DCSS) is a digital design description language with a set of programs to generate and execute a simulation program. The main use of this system (with an appropriate hardware interface ...

5 Emulation as a design tool in the development of real-time control systems

Howard M. Bloom, Cita M. Furlani, Anthony J. Barbera

January 1984 **Proceedings of the 16th conference on Winter simulation**

Full text available: pdf(715.06 KB) Additional Information: full citation, abstract, references, index terms

A major facility for manufacturing research is being established at the National Bureau of Standards. The Automated Manufacturing Research Facility (AMRF) will provide testbed where measurement research of computer integrated manufacturing systems can be performed. The control architecture of the facility is based on a sensory-interactive, modular, hierarchical, feedback system. Each module is represented as a finite state machine that interacts through a shared time-sliced common-memory wh ...

6 Automating the design of microprocessor-based real time control systems

M. N. Matelan

June 1976 **Proceedings of the 13th conference on Design automation**

Full text available: pdf(853.17 KB) Additional Information: full citation, abstract, references, citings, index terms

Many facets of Computer Science and associated technologies may be profitably viewed as dedicated real time control activities. Production of systems to exercise such control has been difficult and costly. An abstract model of the process of producing these systems is presented. The model indicates three areas of the design problem amenable to automation: I) the selection and configuration of hardware; 2) the production of software, and 3) the selection of a monitor to maintain real time in ...

7 On the use of GPSS to model hierarchical control systems in a manufacturing environment

Ronald J. Degen, Thomas J. Schriber

December 1976 **Proceedings of the 76 Bicentennial conference on Winter simulation**

Full text available: pdf(606.77 KB) Additional Information: full citation, abstract, references, citings, index terms

The concept of hierarchical, multilevel control systems is reviewed in the context of manufacturing systems, and the strata typically composing such control systems are discussed. The possibility of building simulation models of hierarchical systems, using FORTRAN routines to represent the higher-level strata, and GPSS to model the actual manufacturing steps themselves, is introduced. A hypothetical, nine-product toy-manufacturing system is described, and some of the specific features of a ...

8 Access Control Models and Mechanisms: Cryptographic access control in a distributed file system
Anthony Harrington, Christian Jensen
June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**
Full text available: pdf(249.24 KB) Additional Information: full citation, abstract, references, index terms

Traditional access control mechanisms rely on a reference monitor to mediate access to protected resources. Reference monitors are inherently centralized and existing attempts to distribute the functionality of the reference monitor suffer from problems of scalability.Cryptographic access control is a new distributed access control paradigm designed for a global federation of information systems. It defines an implicit access control mechanism, which relies exclusively on cryptography to provide ...

Keywords: access control, cryptography, network file systems

9 Concurrency control in hierarchical multidatabase systems
Sharad Mehrotra, Henry F. Korth, Avi Silberschatz
May 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 2
Full text available: pdf(418.55 KB) Additional Information: full citation, abstract, citings, index terms

Over the past decade, significant research has been done towards developing transaction management algorithms for multidatabase systems. Most of this work assumes a monolithic architecture of the multidatabase system with a single software module that follows a single transaction management algorithm to ensure the consistency of data stored in the local databases. This monolithic architecture is not appropriate in a multidatabase environment where the system spans multiple different organization ...

Keywords: Concurrency control, Database management, Distributed databases, Multidatabase management

10 A hierarchical access control model for video database systems
Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2
Full text available: pdf(6.27 MB) Additional Information: full citation, abstract, references, index terms

Content-based video database access control is becoming very important, but it depends on the progresses of the following related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) effective video database indexing structure; (c) the development of suitable video database models; and (d) the development of access control models tailored to the characteristics of video data. In this paper, we propose a novel approach to support multilevel acce ...

Keywords: Video database models, access control, indexing schemes

11 A utility-based power-control scheme in wireless cellular systems

Mingbo Xiao, Ness B. Shroff, Edwin K. P. Chong

April 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2

Full text available: pdf(650.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

Distributed power-control algorithms for systems with hard signal-to-interference ratio (SIR) constraints may diverge when infeasibility arises. In this paper, we present a power-control framework called utility-based power control (UBPC) by reformulating the problem using a softened SIR requirement (utility) and adding a penalty on power consumption (cost). Under this framework, the goal is to maximize the net utility, defined as utility minus cost. Although UBPC is still noncooperative and dis ...

Keywords: Nash equilibrium, Pareto optimal, admission control, cellular system, distributed algorithm, fairness, power control, robustness, signal-to-interference ratio (SIR), stability, utility function, wireless

12 Session 10: meeting support: FlySPEC: a multi-user video camera system with hybrid human and automatic control

Qiong Liu, Don Kimber, Jonathan Foote, Lynn Wilcox, John Boreczky

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(311.32 KB) Additional Information: full citation, abstract, references, citings

FlySPEC is a video camera system designed for real-time remote operation. A hybrid design combines the high resolution of an optomechanical video camera with the wide field of view always available from a panoramic camera. The control system integrates requests from multiple users so that each controls a virtual camera. The control system seamlessly integrates manual and fully automatic control. It supports a range of options from untended automatic to full manual control. The system can also le ...

Keywords: collaborative and automatic camera control, distance learning, gesture based camera control, panoramic video, video communication, video conferencing, video production, webcams

13 Session S9.2: embedded programs: Ensuring code safety without runtime checks for real-time control systems

Sumant Kowshik, Dinakar Dhurjati, Vikram Adve

October 2002 **Proceedings of the 2002 international conference on Compilers, architecture, and synthesis for embedded systems**

Full text available: pdf(127.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper considers the problem of providing safe programming support and enabling secure online software upgrades for control software in real-time control systems. In such systems, offline techniques for ensuring code safety are greatly preferable to online techniques. We propose a language called Control-C that is essentially a subset of C, but with key restrictions designed to ensure that memory safety of code can be verified *entirely* by static checking, under certain system assumpti ...

Keywords: compiler, control, programming language, real-time, security, static analysis

14 <u>The role of artificial intelligence in fault-tolerant process-control systems</u>
F. B. Bastani, I.-R. Chen
June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**
Full text available: pdf(854.81 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

15 <u>Optimistic simulation II: Software control systems for parallel simulation</u>
Radharamanan Radhakrishnan, Philip A. Wilsey
May 2002 **Proceedings of the sixteenth workshop on Parallel and distributed simulation**
Full text available: pdf(840.92 KB)
          Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>
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Parallel simulations using optimistic synchronization strategies such as Time Warp, operate with no regard to global synchronization since this results in greater parallelism and lower synchronization cost. However, like virtual memory, the parallel simulators may end up thrashing instead of performing useful work. The complication in using a Time Warp simulator is then to configure it suitably for good performance and avoid thrashing. Unfortunately, the optimal configuration is not generally st ...

Keywords: Parallel Discrete-Event Simulation, Time Warp, Run-time Control, Distributed Simulation, Control Theory

16 <u>ProCEED: an expert system for multivariate process control systems design</u>
V. K. Chawla, R. K. Ragade, P. B. Deshpande
June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(602.74 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Design and implementation of effective control systems is vital to the competitiveness of the process industry. Process control system design requires knowledge based systems which are capable of efficient numeric computing along with the symbolic reasoning. A brief survey presented in this paper shows that many industrial and academic research groups, are actively developing such knowledge based tools, in the U.S. and other countries. ProCEED, the expert system described in this ...

17 <u>Agent-based modeling and simulation: A simulation test-bed to evaluate multi-agent control of manufacturing systems</u>
Robert W. Brennan, William O
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Full text available: pdf(268.03 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Current research in the area of manufacturing planning and control has moved away from traditional centralized solutions towards distributed architectures that range from hierarchical to heterarchical. Between these two extremes of the control architecture spectrum lies the holonic manufacturing systems paradigm, where partial dynamic hierarchies of agents cooperate to meet global system

objectives in the face of disturbances. This paper describes a simulation test bed for the evaluation of a di ...

18 <u>Special issue on critical analyses of ERP systems: the macro level: The control devolution: ERP and the side effects of globalization</u>
Ole Hanseth, Claudio U. Ciborra, Kristin Braa
September 2001 **ACM SIGMIS Database**, Volume 32 Issue 4

Full text available: <u>pdf(1.41 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

When looking at the implementation of ERP systems in large organizations, the typical business concerns are attaining the goals of the application, usually globalization and efficiency, securing the organization's acceptance, avoiding rigidity, and so on. By now, the literature is full of both normative models on how to implement ERPs successfully and cautioning tales of how the road to success is paved by traps, slowdowns, and even disillusion. This paper does not take sides in this emerging li ...

Keywords: Control, Enterprise Resourse Planning, Globalization

19 <u>A fine-grained access control system for XML documents</u>
Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Full text available: <u>pdf(330.60 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

20 <u>Distributed admission control for power-controlled cellular wireless systems</u>
Mingbo Xiao, Ness B. Shroff, Edwin K. P. Chong
December 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 6

Full text available: <u>pdf(219.23 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

It is well known that power control can help to improve spectrum utilization in cellular wireless systems. However, many existing distributed power control algorithms do not work well without an effective connection admission control (CAC) mechanism, because they could diverge and result in dropping existing calls when an infeasible call is admitted. In this work, based on a system parameter defined as the discriminant, we propose two distributed CAC algorithms for a power-controlled system. Und ...

Keywords: Cellular system, connection admission control, distributed admission control, power control, signal-to-interference ratio, wireless

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